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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 62017621 A

(43) Date of publication of application: 26.01.87

(51) Int. Cl.

G01J 1/42

G01J 1/44

(21) Application number: 60157170

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(22) Date of filing: 17.07.85

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(54) OPTICAL POWER METER

(57) Abstract:

PURPOSE: To enable the effective temp. compensation of the measuring error of optical power, by correcting the value of optical power on the basis of the temp. detection signal corresponding to the change in the temp. of a photoelectric converter element.

CONSTITUTION: The transmission optical signal of an optical fiber 2 is received by the photodiode 6 of a light receiving part 4 to be converted to an electric signal which is, in turn, inputted to a control circuit 26 through an amplifier 12 and an A/D converter 16. The circumferential temp. of the photodiode 6 is detected by a temp. sensor 8 to output the corresponding temp. detection signal which is, in turn, inputted to the circuit 26 through an amplifier 14 and an A/D converter 18. The circuit 26 calculates the optical power of an incident optical signal from the quantity-of-light information of the photodiode 6 and the wavelength information of a wavelength setting switch 22 and subsequently reads the temp. characteristic data of an incident light wavelength and detection sensitivity from a memory 20 on the basis of the temp. information of the sensor 8 and the wavelength information of the switch 22

to perform the temp. correction of optical power.

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